Comparative statement

Government of Karnataka

Form No. PWG-45

BBMP. Dasarahalli **Estimate Amount: 45.00 Lakhs**

Name of The Work: **Modified Estimate for Improvements & Asphalting to 9th cross & Other Roads in BhuvaneshwariNagar in Bagalagunte ward no. 14 T.Dasarahalli Sub Division**

Sl	Tender Item No	Description of Item	Unit	As per Sanction Estimate			As per Tender			Total Executed Qty	up to 125%			Above 125% more than tender Qty			Total Amount	Amount		Remarks
				Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount		Excess	Savings	
1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	4349.00	2.38	10351.00	4349.00	2.38	10351.00	0.00				0.00	0.00	0.00	0.00		10351.00	
2	2	Providing, laying and rolling with vibratory roller of built-up spray grout layer over prepared base consisting of a two layer composite construction of compacted crushed coarse aggregates using motor grader for aggregates. Key stone chips spreader may be used with application of bituminous binder after each layer, and with key aggregates placed on top of the second layer to serve as a base confirming to the line, grades and cross-section specified, the compacted layer thickness being 75mm Complete as per specifications.	Sqm	260.94	240.84	62845.00	260.94	240.84	62845.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		62845.00	
3	3	Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications.	Sqm	4349.000	16.20	70454.00	4349.00	16.20	70454.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		70454.00	
4	4	Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No. 500.8 complete in all respects as per specifications. With 80/100 grade bitumen using 40-60 HMP using Mechanical paver	Cum	108.725	8992.08	977664.00	108.73	8992.08	977664.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		977664.00	
5	5	Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.	Cum	139.80	58.32	8153.00	139.80	58.32	8153.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		8153.00	
6	6	Removing B.S Slab of drain and Stacking	Sqm	503.28	44.47	22381.00	503.28	44.47	22381.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		22381.00	
7	7	Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	104.85	3812.82	399774.00	104.85	3812.82	399774.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		399774.00	

8	8	Providing and laying in position plain cement concrete of design mix M20 with OPC cement @320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reafirmed-2008, machine mixed, concrete laid in layers not blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.	Cum	50.095	4327.98	216810.00	50.10	4327.98	216810.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		216810.00	
9	9	Refixing stone slabs of drains and pointing in C.M (1:3).	Sqm	503.260	63.00	31705.00	503.26	63.00	31705.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		31705.00	
10	10	Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick	Sqm	335.52	315.36	105810.00	335.52	315.36	105810.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		105810.00	
11	11	Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Sqm	372.80	696.60	259692.00	372.80	696.60	259692.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		259692.00	
12	12	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos	4000.00	244.08	976320.00	4000.00	244.08	976320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		976320.00	
13	13	Supplying and fixing precast rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.	Sqm	838.80	1600.00	1342080.00	838.80	1600.00	1342080.00	720.00	720.00	1600.00	1152000.00	0.00	0.00	0.00	1152000.00		190080.00	

14	14	Lead for Disposal of Debris shall be payable at carage rates be mechanical means - With all lead, lifts, loading and unloading charges, cost and conveyance of all matrials, labour, equipments - 4Kmtrs etc.., complete	Cum	139.80	78.24	10938.00	139.80	78.24	10938.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		10938.00	
		EIRL ITEMS																	0.00	
1		Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the isposed earth to be leveled neatly after breaking of clods complete as per specifications.	Cum			0.00			0.00	168.70	168.70	65.88	11114.00	0.00	0.00	0.00	11114.00	11114.00		
2		For Grading- I Material Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications.	Cum			0.00				72.30	72.30	1060.56	76678.00	0.00	0.00	0.00	76678.00	76678.00		
3		Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm			0.00	0.00	0.00	0.00	2184.00	2184.00	2.59	5657.00	0.00	0.00	0.00	5657.00	5657.00		
4		Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum			0.00				96.40	96.40	1121.04	108068.00	0.00	0.00	0.00	108068.00	108068.00		
5		Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications.	Sqm							2184.00	2184.00	17.93	39159.00	0.00	0.00	0.00	39159.00	39159.00		
6		Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH /Chapter 5 21.11.1 With 80/100 grade bitumen	Cum							36.15	36.15	6646.32	240264.00	0.00	0.00	0.00	240264.00	240264.00		

7		Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No. 500.8 complete in all respects as per specifications. With 80/100 grade bitumen using 40-60 HMP using Mechanical paver	Cum							79.53	79.53	9631.44	765988.00	0.00	0.00	0.00	765988.00	765988.00		
8		Carriage od Mixed materials 10Kms for Item	Cum			0.00				115.68	115.68	56.16	6497.00	0.00	0.00	0.00	6497.00	6497.00		
9		Earthwork in surface excavation in Hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.	Cum							33.90	33.90	90.72	3075.00				3075.00	3075.00		
10		Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the isposed earth to be leveled neatly after breaking of clods complete as per specifications.	Cum			0.00			0.00	192.30	192.30	65.88	12669.00	0.00	0.00	0.00	12669.00	12669.00		
11		Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum							59.805	59.805	4290.84	256614.00	0.00	0.00	0.00	256614.00	256614.00		
12		Providing and laying in position plain cement concrete of design mix M15 with OPC cement @320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reafirmed-2008, machine mixed, concrete laid in layers not blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.	Cum							49.14	49.14	4779.00	234840.00	0.00	0.00	0.00	234840.00	234840.00		
13		Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum							11.88	11.88	3549.96	42174.00				42174.00	42174.00		
14		Providing and constructing granite / trap / basalt size stone masonry in basement with mud mortar, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum							18.72	18.72	4227.12	79132.00				79132.00	79132.00		

15		Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.	Cum			0.00				15.705	15.705	5843.88	91778.00	0.00	0.00	0.00	91778.00	91778.00		
16		Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Qtl			0.00				6.48	6.48	7450.92	48282.00	0.00	0.00	0.00	48282.00	48282.00		
17		Removing B.S Slab of drain and Stacking	Sqm							732.00	432.00	50.11	21648.00	0.00	0.00	0.00	21648.00	21648.00		
18		Refixing stone slabs of drains and pointing in C.M (1:3).	Sqm							432.00	432.00	70.04	30257.00	0.00	0.00	0.00	30257.00	30257.00		
19		Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick	Sqm							288.00	288.00	343.44	98911.00	0.00	0.00	0.00	98911.00	98911.00		
20		Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Sqm							640.00	640.00	924.48	591667.00	0.00	0.00	0.00	591667.00	591667.00		
21		Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. size 450 x 200 x 400 mm	Nos							222.00	222.00	316.44	70250.00	0.00	0.00	0.00	70250.00	70250.00		
22		Disposal of Debris to final place of disposal with all lead and lift and as direction by the Engineer-in-charge of the work, Lead 4km	Cum							361.00	361.00	72.71	26248.00	0.00	0.00	0.00	26248.00	26248.00		
						0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Sub Total				4494977.00							4012970.00			0.00	4012970.00			
		KRIDL Charges 10%				-							485000.00							
		Miscelleneous				5023.00							2030.00							
		TOTAL				4500000.00			4494977.00				4500000.00				4012970.00	2860970.00	3342977.00	

Estimated amount	4494977.00
Amount As per Tendered Amount	4494977.00
	4012970.00
Percentage of Savings	0.8927676%
Savings	482007.00

Since the overall expenditure is lesser then estimated amount. The Work slip & EIRL may please be approved

Assistant Engineer
W-14

ASSISTANT EXECUTIVE ENGINEER
Dasarahalli Sub-Division

EXECUTIVE ENGINEER
Dasarahalli Division

WORK SLIP

Government of Karnataka

Form No. PWG-45

BBMP. Dasarahalli

Estimate Amount: 45.00 Lakhs

Name of The Work: **Modified Estimate for Improvements & Asphalting to 9th cross & Other Roads in BhuvaneshwariNagar in Bagalagunte ward no. 14 T.Dasarahalli Sub Division**

Sl	Description of Item	Unit	As per Sanction Estimate			As per Tender			Total Executed Qty	up to 125%			Above 125% more than tender Qty			Total Amount
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Supplying and fixing precast rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.	Sqm	838.80	1600.00	1342080.00	838.80	1600.00	1342080.00	720.00	720.00	1600.00	1152000.00	0.00	0.00	0.00	1152000.00
	TOTAL Amount											**1152000.00**				**1152000.00**

Assistant Engineer
W-14

ASSISTANT EXECUTIVE ENGINEER
Dasarahalli Sub-Division

EXECUTIVE ENGINEER
Dasarahalli Division

Chief Engineer
Dasarahalli Zone
B.B.M.P